



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/873,367C

DATE: 05/07/2003

TIME: 11:10:56

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MAY 22 2003

TECH CENTER 1600/2900

Input Set : E:\Avalon 64.txt
 Output Set: N:\CRF4\05072003\I873367C.raw

3 <110> APPLICANT: Young, Paul
 4 Soppet, Daniel
 5 Endress, Gregory
 6 Augustus, Meena
 7 Ebner, Reinhard
 8 Carter, Kenneth
 10 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
 11 Signature Gene Sets
 13 <130> FILE REFERENCE: 689290-64
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/873,367C
 C--> 15 <141> CURRENT FILING DATE: 2003-04-29
 15 <150> PRIOR APPLICATION NUMBER: U.S. 60/236,891
 16 <151> PRIOR FILING DATE: 2000-09-29
 18 <150> PRIOR APPLICATION NUMBER: U.S. 60/236,842
 19 <151> PRIOR FILING DATE: 2000-09-29
 21 <150> PRIOR APPLICATION NUMBER: U.S. 60/244,867
 22 <151> PRIOR FILING DATE: 2000-11-01
 24 <150> PRIOR APPLICATION NUMBER: U.S. 60/245,084
 25 <151> PRIOR FILING DATE: 2000-11-01
 27 <160> NUMBER OF SEQ ID NOS: 1067
 29 <170> SOFTWARE: PatentIn version 3.0
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 447
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Homo sapiens
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: (1)...(447)
 39 <223> OTHER INFORMATION: n=a,t,g or c
 42 <400> SEQUENCE: 1
 43 ttttttttgc tttccccctc tatctcaaat ggcctcactcc gggacaaata ttcctttctta 60
 45 gcactactta acataaataa atcaattttg gctcttcaaa gtcattctgc atataatcct 120
 47 gtcaccctta taggagccta ctgtacattc tcattgtgaa ccaatctctc tttacattca 180
 W--> 49 caatattatg atgcnttcac ngggaggggc tcttcccaa ggtaaatgta gtcatttaa 240
 51 naaactacag tggggctctg tgatctatgt acacatgtat gtcacatatt tgaccattta 300
 53 aaaaacacag aaacccttga gactttctgt aaaattttgg gatcataaaa tatattaaaa 360
 55 agcagaccaa aggcaaggca ttctggttct ctgacgtccc ccggtctagt ttaattcatt 420
 57 ttcccagtat tggggaaaag cagggca 447
 60 <210> SEQ ID NO: 2
 61 <211> LENGTH: 405
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Homo sapiens
 65 <220> FEATURE:

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66 <221> NAME/KEY: misc_feature
67 <222> LOCATION: (1)...(405)
68 <223> OTHER INFORMATION: n=a,t,g or c
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74 tctgtatcgt tccaatttta gtatatgtgc tgccgaagcg agcaccgtgc ttagttattc      120
76 taagtgaggg ccccaggatc cacctgccta ggcttcccaa agtgctggga ttacaggcgt      180
78 gaccaccgcg gccagccaa gttttggttt cctcaactgg aggtaaatatt acatatattta      240
80 cttatacata tgcataagta aacaaagagg gttgttttga gggtaaaata aattgatgga      300
W--> 82 tgttaacgct ctnctggtaa attataaagc actatacaaa tacaaggcat tattgttaat      360
84 aatagagctt aattacacct gtcctcattt gatctctcan agacc                        405
87 <210> SEQ ID NO: 3
88 <211> LENGTH: 364
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapiens
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93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: (1)...(364)
95 <223> OTHER INFORMATION: n=a,t,g or c
98 <400> SEQUENCE: 3
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101 acttataaaa atgttttgaa agaacatttg aaaaatagat gaatgtcttc tagccagtta      120
103 atagcagaga aagaatttag ttttggtagc tcataagtca gtaaccgtat gccatgtctc      180
W--> 105 cagaagtaaa atccgtctgt tttccagaaa aatgtgatgt agngaattnt cattttatgt      240
107 gttattttgc actcattaat gttaaattta gatttaaaaa aatcaagttt atttgctttc      300
109 taagaaaatg gnctccttnc ccattcgcca gtagnttaat atatgttcta cgggtgtgggt      360
111 gtgt                                364
114 <210> SEQ ID NO: 4
115 <211> LENGTH: 158
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 4
120 tttttttttt gcaagaaaca catgggggatg gttttatttt tataattggt taaaaaagtt      60
122 tctcaaagtg aagtttagga gtgagtttta gtgttttgta atttgaagaa aagtgtctta      120
124 aaattcaaag ataccaatgg aaagataaaa gtttgggg                                158
127 <210> SEQ ID NO: 5
128 <211> LENGTH: 271
129 <212> TYPE: DNA
130 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 5
133 gatttttcaa aattaacttt tttattaatt taaaaatcca gaaatacagt gactacataa      60
135 ataagtacca taattaggta catgtcctgt gagaacagtg aaagggtaat actgttatgt      120
137 tactcttact tgtttacatg agttaactag aaaatggcta caactgctaa atgatgctta      180
139 tgggtctttg tgttccaagt gtttatgata caaataaata cacaagaaga accacatcca      240
141 ttcttctcta ctaactacag gcagcttggg g                                271
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 486
146 <212> TYPE: DNA
147 <213> ORGANISM: Homo sapiens

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```

149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (1)...(486)
152 <223> OTHER INFORMATION: n=a,t,g or c
155 <400> SEQUENCE: 6
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158 gccaagtaca aacttttgat ttttgaaatt ttttcaactc agggccaagt acaatctttt      120
160 gatttaaaaa ttttttttca tgaacaaacc atcagtagtt attaaggagc ccaagaaata      180
162 ggagatgtga aagcaggatt tctttgtgtt tcctttgaat gttgttattt tgagtattat      240
164 cattatcagg tagaggaaga aaggtaggct gggaagtagg tccttatgat atcttgacta      300
W--> 166 tggatcccag atttacattt cacctngtca cagagcacac ataatttaag ataaacatgt      360
168 caagaatgac ataaaccaga ggtaaaccac aaggagcttt acatttggaa ccngaaaaata      420
170 aaaattagaa aaattattac cccatattaa taaccaaaaa attacttaaa ctcctaggnc      480
172 ccnggg                                           486
175 <210> SEQ ID NO: 7
176 <211> LENGTH: 502
177 <212> TYPE: DNA
178 <213> ORGANISM: Homo sapiens
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (1)...(502)
183 <223> OTHER INFORMATION: n=a,t,g or c
186 <400> SEQUENCE: 7
187 cacatttttc catctaattt ttatttggag aaaataattt cagtatgaaa ttatttcta      60
189 aaaattattc taacatacaa ttaggagata attattttat tcatcacaaa atttactact      120
191 ttacacttta gagaccagtg aacgtatgta ccattacctt ttgaaagaca gaatgtctcc      180
193 tcatattgtt ttcttacttt ctagacataa caagcacctt gccatcacac tgaaaagatc      240
195 ataaaatata tagtggttgac ttaaaaatca gtatgatatc tgagactggg tttaataaaa      300
197 ggaagaatca ttgaatttga gtactgaagt tgaaaactag ccatatttgg ttataaattc      360
W--> 199 ctottaataaa attagtagtt tctaacttgg attnttccct cnggatggat ttcacccctt      420
201 aatttagaag tcnaaatacc ttcaaatttt tccctccnta aaatngttaa tttgccacac      480
203 agactagggg aatangggaa cg                                           502
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 590
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (1)...(590)
214 <223> OTHER INFORMATION: n=a,t,g or c
217 <400> SEQUENCE: 8
218 atatgcttgc aggttatatc ttagtgcaat tcagtcoccaa atactttaat tttgaaaaga      60
220 aaaaaaaaca tacatttttg aatgtaaaat acccctacag atataaacag gggcggtttcc      120
222 cctcttaata ctttggtttt caatacagtc agtggtagat caaagactac acatacccaa      180
224 cttatatatta agttgcaagc acatgctgta taagctactt tttttaaaca gtccccttgc      240
226 aaactctacc ccccttaaca tcacaatagt aaacaattta gtgcatcaat cgtttaaaaa      300
228 atctacagct aaacagacct aactctttca aatttatcta taacattcct ttatctgtag      360
230 catacatttt aactgggcta acagattata aaaactagaa tttaaattata tactagaaac      420
232 ccagagcatt ccacatttga caatgaccaa aagccaaaaa atataaaata aaaataaaac      480

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```

W--> 234 aaacccaaaaa taatggggcg tttccctttt aaaaaataaa ttttagctgc ntctcggnaa 540
236 tanccaatit aggncccaag tggggcgcca tctattaaag gnacattagg 590
239 <210> SEQ ID NO: 9
240 <211> LENGTH: 496
241 <212> TYPE: DNA
242 <213> ORGANISM: Homo sapiens
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION: (1)...(496)
247 <223> OTHER INFORMATION: n=a,t,g or c
250 <400> SEQUENCE: 9
251 tttttttttt tttttccagt tttttctttt ttattctgca gttttctatc agtgtcgggt 60
253 ccccccactcc agccagtggg gtggggaagg gaagacatct ctagggacac gactacagac 120
W--> 255 caggcagtga gcctagcaac catacatcga aggtgtcgcc agcctcagtg ccggtggncg 180
257 tctgcaccag gaatagctaa agccgacgac atctagccac ctcgagcgcc aggggaagacg 240
259 ctccggtana aaccgcggcc tcaggcgagc tcccgtccca gctccgcgct gctgggtggca 300
261 tttccgggga cccaaagtgg gtggccttcg tcttgccccc gcagtggcag cacacggtcc 360
263 acaggtactt gagcgtccgc cagagcaaga tgatgaagag gccccgaaga aagtcaccat 420
265 ggaaggaggg caggaaagcc caccaaagtc gttngncccg gntgtcgaan ggaacctcca 480
267 tggtcancgg gatgat 496
270 <210> SEQ ID NO: 10
271 <211> LENGTH: 449
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 10
276 caaaaataat gcttaaaaga gacttctaga aacagtggga ctacatcagg accagaagac 60
278 agtgacacaa ggactgcaaa tgtaagact aggagtagct tttcacatgg agcttttatg 120
280 tagaggacgt ctcttctgtg tgattcctac agccgagaca agatgtgatc acaggagact 180
282 ccaaaatctc aaactgggct tgagtaacac cctagataaa catcagggaac cccactgagg 240
284 ctgaagtact gaaactgtgg cccatgtgaa aaagaggtgc aagtgcacaa gattcatgca 300
286 gagcctgctg gaacagaggg tggtggcggc gggtagtcc acacttacac accagcagg 360
288 atgctgggga aaggggcccc caggtggagt gcctgacata gggctcgctc cagaggcgctc 420
290 tgactcagaa gtcctgaga gaggtgtca 449
293 <210> SEQ ID NO: 11
294 <211> LENGTH: 367
295 <212> TYPE: DNA
296 <213> ORGANISM: Homo sapiens
298 <400> SEQUENCE: 11
299 tatagactca ttttcaggtt attaaatgta agagaaacag ataccctct tttttaaagt 60
301 aggtaaatca ttgatgattt atattaccaa tttttagaag taattttcta gtaagcttgt 120
303 ggcatacagaa aatactagaa gattttttta gttaaattag ttagaacatt tatgaatgaa 180
305 tataataaat attttttcag aataaaatat ggaccctttg tgtttactaa tagataaagc 240
307 cagatagtaa tttttgttt ttaaggccac aaaatatggc ctttggttaa gaacactaaa 300
309 gttagaaatc taaagttaga gcaacttttt aatggctatt tcctattatt gtaagtgtta 360
311 aaacccc 367
314 <210> SEQ ID NO: 12
315 <211> LENGTH: 650
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens

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319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (1)...(650)
322 <223> OTHER INFORMATION: n=a,t,g or c
325 <400> SEQUENCE: 12
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328 cacaaaggca aatcatgagg aaacgttaaa tatttcaaaa tgcccacgag gcgtgccaga      120
330 aacagtgtct tatctatagc acagaatcgt tggaggccaa agctaaagca gtaggggcta      180
332 ctgcaacttc tagctcttta ctgctgcttt tttgtttgtt tgatagaggg ggattcaggt      240
334 gagggggttc ggtctctcag gaagttaggc cataatttct gcaggttcag tgattaactt      300
336 ggatccatcc catgctgtct tgaactgttc aggaatggga aattctctat aatcaccatc      360
338 ctgagggata agtatgttca tttcagatga cttggcgctc acgatctcac agtctaagtc      420
340 atcttcactg aggtatatgt ggcaaccttc tgtcttatta atggaaattg ttggcactct      480
W--> 342 ccccatcacc tggatttgaa tgtcctggga gttgatcact tccacnatgc ccaccacatt      540
344 ggnaaacacc agccgagttt ttacagtggc cattatcctc gtgccgaatt tggcccagag      600
346 ccaattccta tngggcggat taatcgaacc agcaactgtt ccgngaatg      650
349 <210> SEQ ID NO: 13
350 <211> LENGTH: 490
351 <212> TYPE: DNA
352 <213> ORGANISM: Homo sapiens
354 <400> SEQUENCE: 13
355 cttgttccaa tcgttcctct tctttacgct tggcttctaa ttcttcttcc tcttcttctt      60
357 cctcctcctc ctcttcaggg ttttctttta ctctatatat aactgtgttt ccttctactt      120
359 tttctgtctc ctcatcactg gccatagctt cccaatcac caatccagca tcctcagtat      180
361 cttcttcttc ttctgggtta acaggagggt gtgtctcttc cttttctggt actccttggt      240
363 ccataacttc tacagcagca cataattcca ttgattcaga cacttcttta ctttctagct      300
365 gctgtggtat ttttttcctc tttttatctt cataaattgg cctcttcttt ggcaaagagt      360
367 cttttgatgg cacttcaaca ccctgagctt gtagcagttt aagagtagct tcggctctgg      420
369 ctctggcttc tctctgggat ttagttaaaa gtttccctct ttttcaagcg ttctttcttc      480
371 tttctcgtgg      490
374 <210> SEQ ID NO: 14
375 <211> LENGTH: 429
376 <212> TYPE: DNA
377 <213> ORGANISM: Homo sapiens
379 <400> SEQUENCE: 14
380 tgggggtgac tgtcctgggt aggggagcct gtttcaggac ttgaacacgt gcacggctcg      60
382 caccacatac tgccggcaga tgggacactc actcatgcgc ttgccgactt ggtgcaggta      120
384 accatgtgcc cacactccag taggacacag tcgatgacgg catccatgca gatgcgacac      180
386 aggtgtcgt cttcctcatc ctgcagctgc agccgctcgc cataggactt ttggttttct      240
388 tcattctctt tgtataaccg gtttactttc tctaccagtt cccatttttc acaacagcca      300
390 gaatagttga caaaattccg agccagaatt tccttcagct ggcgcacgct tcattccttc      360
392 cacatcatca aggcttgaca agtcagacag ttgaagctct cactctctcc ttggagagcc      420
394 cgggggttcc      429
397 <210> SEQ ID NO: 15
398 <211> LENGTH: 384
399 <212> TYPE: DNA
400 <213> ORGANISM: Homo sapiens
402 <400> SEQUENCE: 15
403 taaaatttgt aactcctttt tttttaattt cacaaaagtt ttcacaagga caacgttata      60

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 195,201,241
Seq#:2; N Pos. 313,400
Seq#:3; N Pos. 223,229,312,319,335
Seq#:6; N Pos. 326,413,479,484
Seq#:7; N Pos. 394,402,433,458,465,495
Seq#:8; N Pos. 531,538,543,554,582
Seq#:9; N Pos. 178,249,454,456,462,470,487
Seq#:12; N Pos. 526,544,612,645
Seq#:20; N Pos. 552
Seq#:22; N Pos. 516
Seq#:34; N Pos. 173
Seq#:83; N Pos. 1499
Seq#:90; N Pos. 5,6,25,37,147,215,238
Seq#:99; N Pos. 302
Seq#:114; N Pos. 1099,1167,1215,1230,1698,1750,1813,2350,2360,2384,2604
Seq#:114; N Pos. 2635,2640,2665,2705,2795,2853
Seq#:115; N Pos. 184
Seq#:117; N Pos. 224
Seq#:118; N Pos. 35,75,105
Seq#:119; N Pos. 55,57,58,59,68,79,88,94,98,107,112,365,376
Seq#:120; N Pos. 193,199,304,407,412,432
Seq#:122; N Pos. 57,294,374,383,391,414
Seq#:124; N Pos. 3,361
Seq#:125; N Pos. 324,338,369
Seq#:126; N Pos. 62,144,238,242,379
Seq#:175; N Pos. 27
Seq#:176; N Pos. 410
Seq#:179; N Pos. 364,384,459
Seq#:180; N Pos. 220,232,233,239,251,263,438,504
Seq#:181; N Pos. 452,484
Seq#:182; N Pos. 260,462
Seq#:184; N Pos. 437
Seq#:186; N Pos. 181
Seq#:187; N Pos. 409,513,559,612,619,667
Seq#:188; N Pos. 567
Seq#:191; N Pos. 3
Seq#:192; N Pos. 520,530,557
Seq#:193; N Pos. 322,364,378,397,403
Seq#:195; N Pos. 378
Seq#:196; N Pos. 384,420
Seq#:198; N Pos. 219
Seq#:202; N Pos. 329
Seq#:204; N Pos. 376,450,511
Seq#:205; N Pos. 435,444

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Seq#:207; N Pos. 395
Seq#:208; N Pos. 8,142,219
Seq#:209; N Pos. 5,11
Seq#:210; N Pos. 236,309,323,332,395,405
Seq#:211; N Pos. 39,86,199,234,247,328
Seq#:212; N Pos. 11,13,247,292,353
Seq#:213; N Pos. 220,223,232,236,247,267,274,311,348,373

VERIFICATION SUMMARY

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Input Set : E:\Avalon 64.txt

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180
M:341 Repeated in SeqNo=1
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
M:341 Repeated in SeqNo=2
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
M:341 Repeated in SeqNo=3
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300
M:341 Repeated in SeqNo=6
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
M:341 Repeated in SeqNo=7
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
M:341 Repeated in SeqNo=8
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
M:341 Repeated in SeqNo=9
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:480
M:341 Repeated in SeqNo=12
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:540
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:480
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:120
L:4327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:1440
L:4826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
M:341 Repeated in SeqNo=90
L:5793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:300
L:8018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:1080
M:341 Repeated in SeqNo=114
L:8109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:180
L:8147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:180
L:8166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
M:341 Repeated in SeqNo=118
L:8191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
M:341 Repeated in SeqNo=119
L:8224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:180
M:341 Repeated in SeqNo=120
L:8262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
M:341 Repeated in SeqNo=122
L:8308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
M:341 Repeated in SeqNo=124
L:8345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:300
M:341 Repeated in SeqNo=125
L:8364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:60
M:341 Repeated in SeqNo=126
L:12747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0
L:12788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:360
L:12863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:360
M:341 Repeated in SeqNo=179
L:12886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:180

VERIFICATION SUMMARY

DATE: 05/07/2003

PATENT APPLICATION: US/09/873,367C

TIME: 11:10:57

Input Set : E:\Avalon 64.txt

Output Set: N:\CRF4\05072003\I873367C.raw

M:341 Repeated in SeqNo=180

L:12925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:420

M:341 Repeated in SeqNo=181

L:12952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:240

L:63696 M:283 W: Missing Blank Line separator, <400> field identifier